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APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/057,113	01/25/200	Mariusz W. Szkudlinski	NIH147.001D1	3150
45311	7590 07/	0/2005	EXAM	INER
KNOBBE, I	MARTENS, OL STREET	SPECTOR, LORRAINE		
FOURTEEN		ART UNIT	PAPER NUMBER	
IRVINE, CA	92614		1647	

DATE MAILED: 07/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Texaminer								
## Examiner Lorraine Spector, Ph.D. 1647 ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. **Entensive of time may be available under the provisione of 30° CPR 1.136(s), in no event, however, may a reply be thinly filled. **If the period for reply specified above, the maximum statutory priorid will apply and will expire SIX (ft) MXDNTH3 from the mailing date of the communication. Any may be revised by the Office late than there monitor after the multiling date of the communication, even if timely filled, may reduce any search priorid to the priorid by the statutory priorid will apply and will expire SIX (ft) MXDNTH3 from the mailing date of the communication, even if timely filled, may reduce any search pattern term adjustment. See 37 CPR 1.704(s). ### Responsive to communication(s) filed on 17 May 2005. ### Salmon is FINAL. ### 2010 This action is non-final. ### 301 This action is FINAL. ### 2010 This action is non-final. ### 2010 This action is provided the communication. ### 2010 This action is provided to the communication. ### 2010 This action is non-final. ### 2010 This action is provided to under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. ### 2010 This action is non-final. ### 2010		Application No.	Applicant(s)					
Lorraine Spector, Ph.D. 1647	055-14 (1 0	10/057,113	SZKUDLINSKI ET AL.					
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DETAILED ACTION

Election/Restrictions

The restriction requirement is withdrawn. Claims 81-126 are pending and under consideration.

Claim Objections

Applicant is advised that should claim 88 be found allowable, claim 126 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 94-96 and 118-120 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 18-20 and 44-46 of U.S. Patent No. 6,361,992. Although the conflicting claims are not identical, they are not patentably distinct from each other because while the instant claims specify that the claimed nucleic acid encodes a modified FSHα whereas the patented claims recite a TSHα, it is well known in the art

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that the α subunit is *common* to the four glycoprotein hormones. Because the α subunit may be differently glycosylated depending upon the hormone, this rejection is being issued as an obviousness-type double patenting rejection, rather than a statutory double patenting rejection.

Allowable Subject Matter.

Claims 81-93, 97-117 and 121-125 are allowable.

It is noted that in the parent application, issued as U.S. Patent No. 6,361,992, a species election requirement was made, requiring applicants to elect a single glycoprotein hormone. The species election was predicated in part upon the presence of individual claims in the application that required modifications of the beta subunit of the hormone as well as the alpha subunit. The instant case contains claims only involving variations in the alpha, not the beta subunit of FSH. As all the claimed mutations have already been allowed with respect to TSH, the claimed alpha subunit substitutions remain patentable for reasons of record in the parent application. With regard to enablement, the Examiner has thoroughly searched the art to determine whether or not one would expect the substitutions in the alpha subunit to have an effect equivalent to that shown with TSH in the parent application on other members of the glycoprotein hormone family, in this case FSH. The Examiner has found no negative teachings in the prior art that would indicate a lack of such an expectation for this region of the alpha subunit, residues 11-20. Accordingly, it is presumed that FSH comprising the alpha subunits claimed herein would retain some level of FSH function. Applicants are cautioned that any claims introduced that specify alterations in the human FSH beta subunit will require further search and consideration, and may raise issues under 35 U.S.C. §112, first paragraph.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Lorraine M. Spector. Dr. Spector can normally be reached Monday through Friday, 9:00 A.M. to 3:00 P.M. at telephone number 571-272-0893.

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If attempts to reach the Examiner by telephone are unsuccessful, please contact the Examiner's supervisor, Ms. Brenda Brumback, at telephone number 571-272-0961.

Certain papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Official papers filed by fax should be directed to 571-273-8300. Faxed draft or informal communications with the examiner should be directed to 571-273-0893.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lorraine Spector, Ph.D.

Primary Examiner